

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2005/001374

## A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. 7: C07H 21/00, C12Q 1/68

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPIDS, CA, MEDLINE, BIOSIS; keywords: intercalating nucleic acid (INA), oligodeoxyribonucleotide, intercalating pseudonucleotide, phosphoramidite, amplification

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Christensen U B & Pederson E B "Intercalating nucleic acids containing insertions of 1-O-(1-pyrenylmethyl)glycerol: stabilisation of dsDNA and discrimination of DNA over RNA" Nucleic Acid Res. 2002, 30(22): 4918-4925. See whole document, particularly Table 4.	1-8
X	Newton C R et al., "The production of PCR products with 5' single-stranded tails using primers that incorporate novel phosphoramidite intermediates" Nucleic Acid Res. 1993, 21(5): 1155-1162. See whole document, particularly Table 1, Results and Discussion.	1-9
A	See whole document.	10-36



Further documents are listed in the continuation of Box C



See patent family annex

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"E" earlier application or patent but published on or after the international filing date

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"O" document referring to an oral disclosure, use, exhibition or other means

"&amp;" document member of the same patent family

"P" document published prior to the international filing date but later than the priority date claimed

Date of the actual completion of the international search

27 October 2005

Date of mailing of the international search report

- 9 NOV 2005

Name and mailing address of the ISA/AU

AUSTRALIAN PATENT OFFICE  
PO BOX 200, WODEN ACT 2606, AUSTRALIA  
E-mail address: pct@ipaustalia.gov.au  
Facsimile No. (02) 6285 3929

Authorized officer

Oi Lee Chai

Telephone No : (02) 6283 2482

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2005/001374

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2004/065625 A1 (HUMAN GENETIC SIGNATURES PTY LTD) 5 August 2004 See whole document, particularly page 43 line 14 – 19, page 46 "Oligonucleotides comprising intercalator pseudonucleotides", page 52 "Position of intercalator pseudonucleotide".	1-8
A	See whole document, particularly page 74 line 38 – page 75 line 15 and figure 8.	9-36
X	WO 2003/051901 A2 (UNEST A/S) 26 June 2003 See whole document, particularly page 121 line, page 127 "Oligonucleotides comprising intercalator pseudonucleotides", page 128 line 8 – 18 and line 25-26.	1-8
A	See whole document.	9-36
X	WO 2003/052133 A2 (UNEST A/S) 26 June 2003 See whole document, particularly page 115 line 4-10, page 121 "Oligonucleotides comprising intercalator pseudonucleotides",	1-8
A	See whole document, particularly page 149 "Method for real-time detection of nucleic acid sequences during amplification reactions", page 156 line 21-27.	9-36
X	WO 2003/052132 A2 (UNEST A/S) 26 June 2003 See whole document, particularly page 115 line 7-13, page 123 line 22 – 27, page 143 line 31 – page 144 line 2.	1-9, 27-31
A	See whole document, particularly page 151 "Method of detecting template directed extension".	10 – 26, 32-36
X	WO 2003/052134 A2 (UNEST A/S) 26 June 2003 See whole document, particularly page 113 line 7-13, page 122 "oligonucleotides comprising intercalator pseudonucleotides.	1-8
A	See whole document.	9-36

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU2005/001374

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member			
WO	2004065625	AU	2004206037		
WO	2003051901	AU	2002358462	AU	2002358463
		AU	2002361946	CN	1653079
		WO	2003052132	WO	2003052133
				AU	2002358464
				EP	1468007
				WO	2003052134
Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.					
END OF ANNEX					